

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P383147

Luminaire Tested: **GAN-SA4D-735-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383147  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA4D-735-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28611.6 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

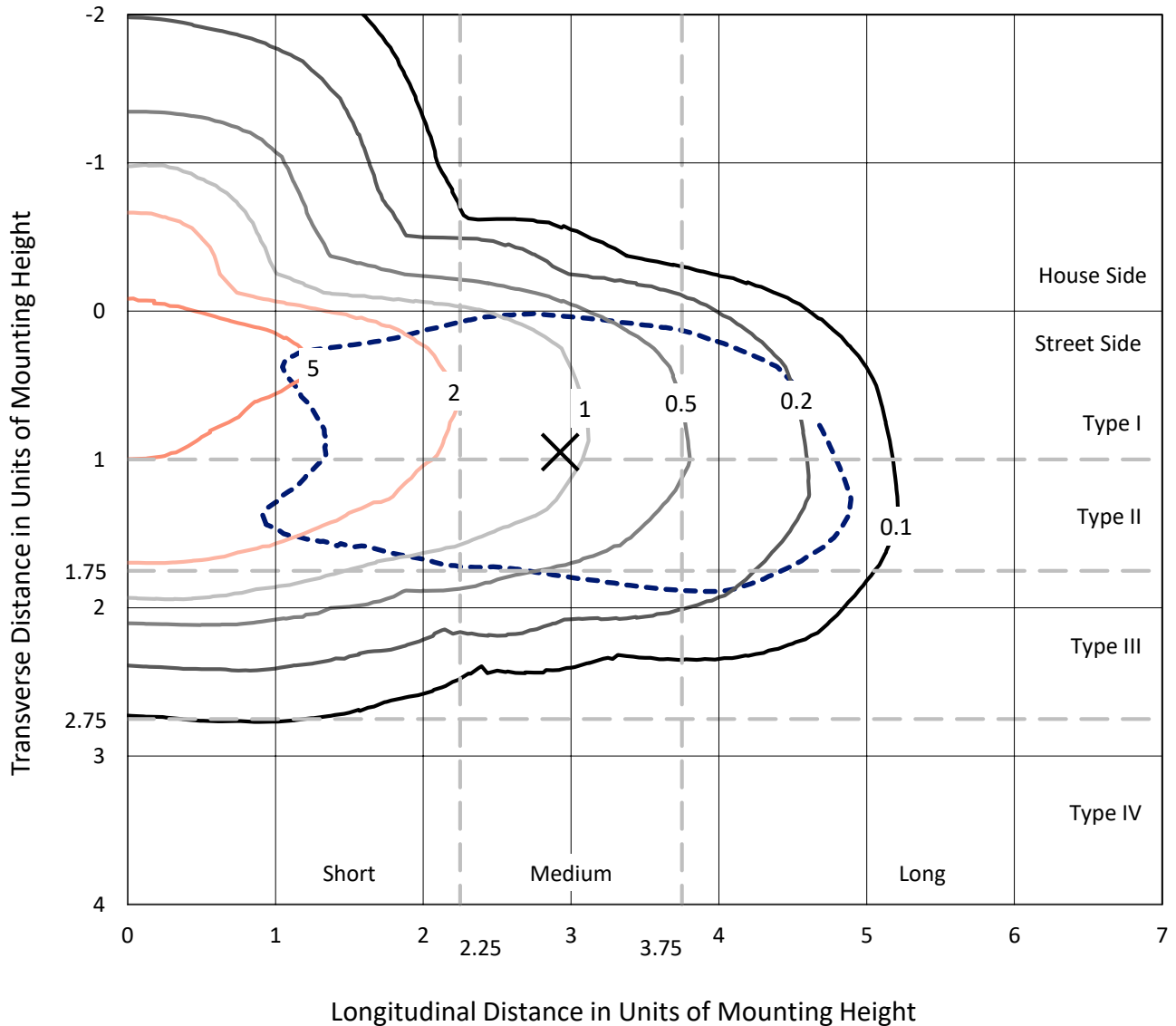
Input Watts (W): 258  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

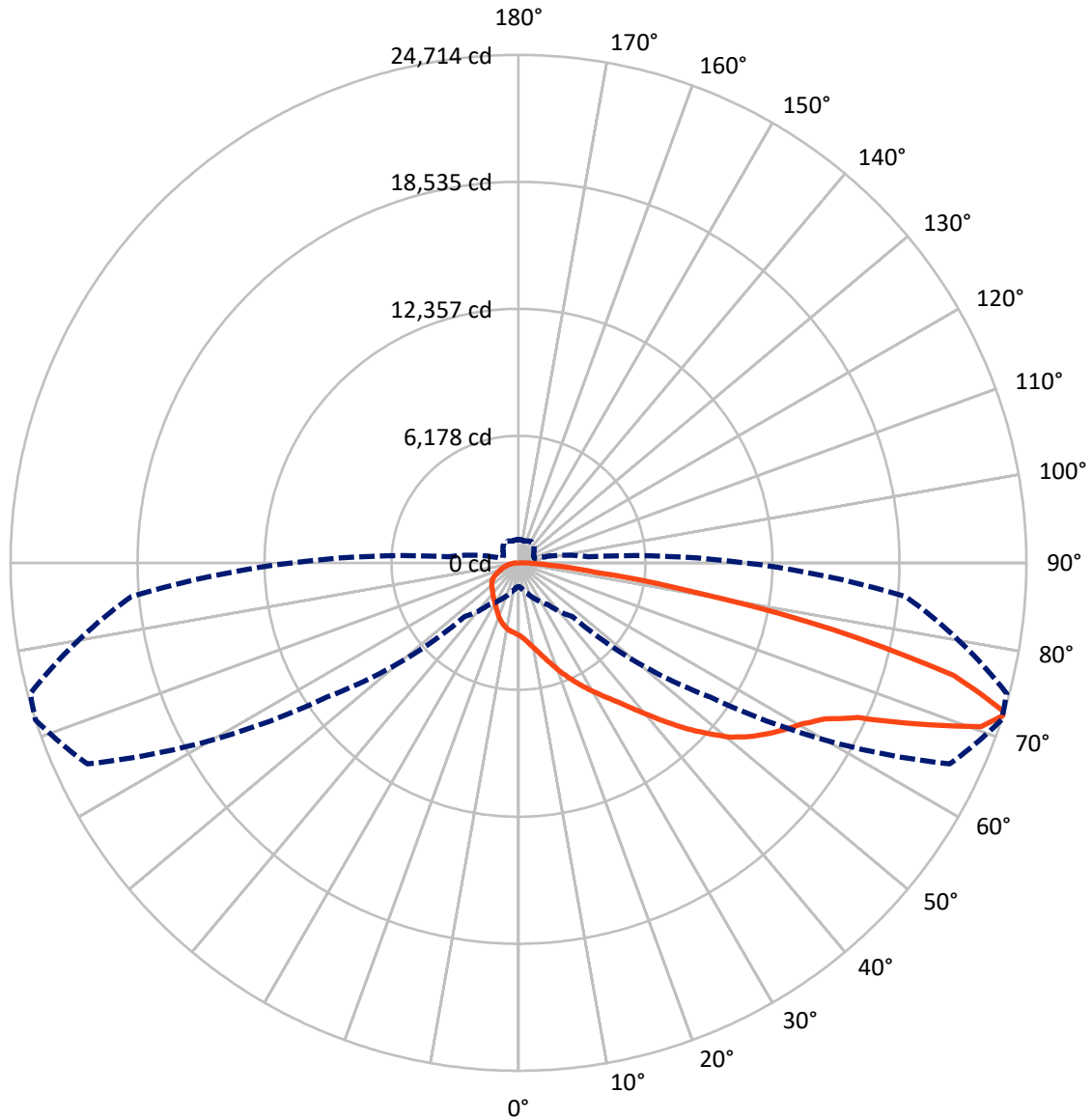
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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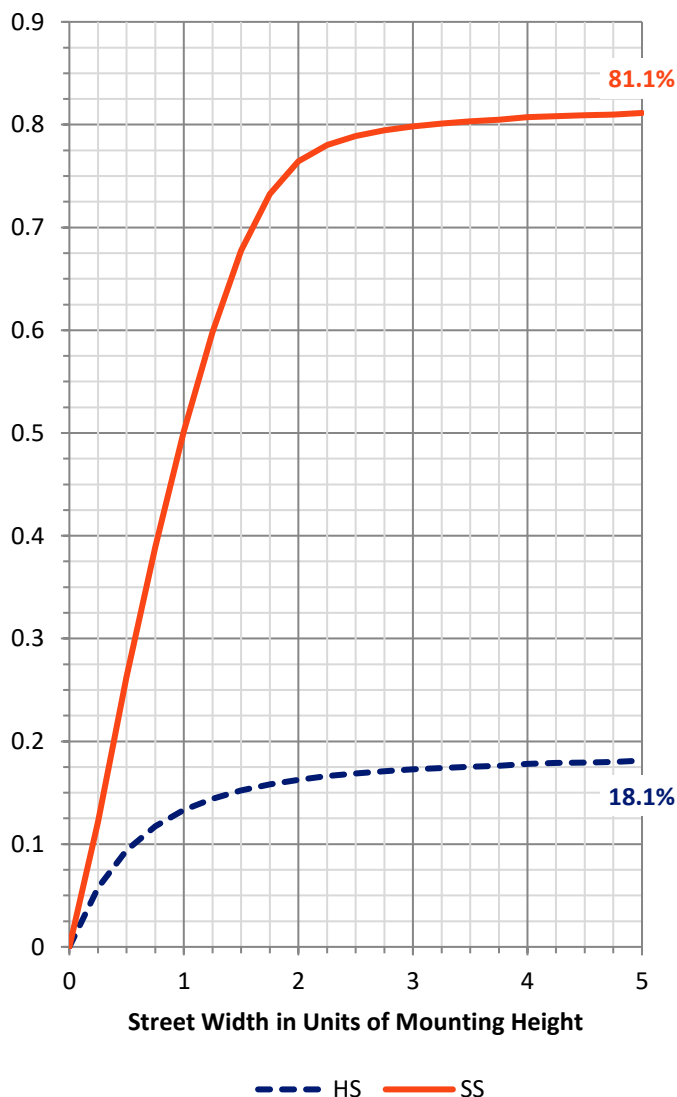
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5307.6	0.0	5307.6
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	23303.9	0.0	23303.9
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	28611.6	0.0	28611.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	352.7	1.2
10°-20°	1139.8	4.0
20°-30°	1997.3	7.0
30°-40°	2961.3	10.4
40°-50°	4331.2	15.1
50°-60°	5959.7	20.8
60°-70°	6634.9	23.2
70°-80°	4495.8	15.7
80°-90°	738.9	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	28611.6	100.0
0°-180°	28611.6	100.0

**Coefficient of Utilization**

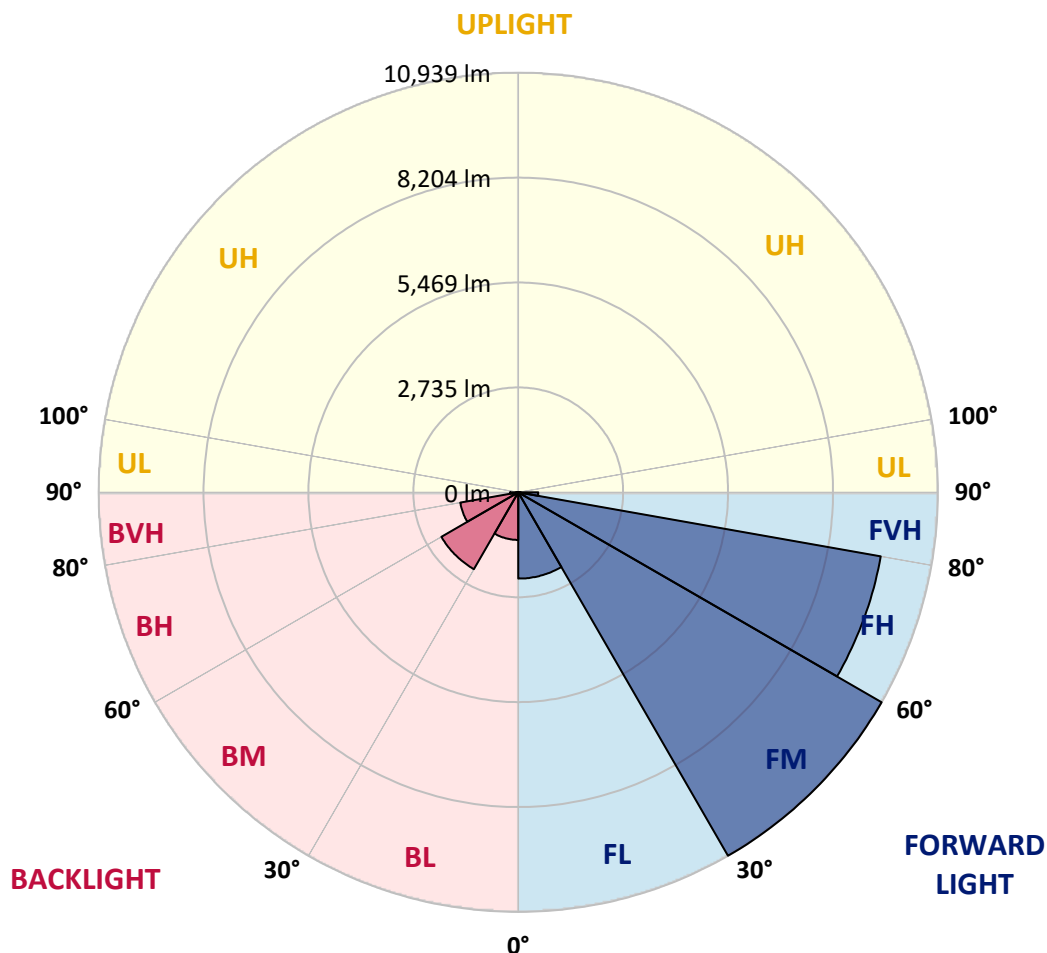


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2249.0	7.9			
FM (30°-60°)	10938.6	38.2			
FH (60°-80°)	9595.1	33.5			G4/12000
FVH (80°-90°)	521.2	1.8			G4/750
BL (0°-30°)	1240.7	4.3	B3/2500		
BM (30°-60°)	2313.6	8.1	B2/2500		
BH (60°-80°)	1535.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	217.7	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3519.9	3519.9	3519.9	3519.9	3519.9	3519.9	3519.9	3519.9	3519.9	3519.9	3519.9
2.5°	3888.4	3882.5	3861.8	3861.8	3822.4	3788.9	3725.9	3683.5	3633.2	3615.5	3556.5
5°	4264.7	4266.7	4241.1	4223.4	4165.2	4094.3	3986.9	3889.4	3791.9	3752.5	3631.3
7.5°	4581.0	4577.1	4570.2	4555.4	4501.1	4428.3	4283.4	4138.7	3994.8	3935.7	3726.8
10°	4784.0	4792.8	4798.7	4805.6	4782.9	4730.8	4593.8	4417.5	4229.3	4148.5	3841.1
12.5°	4886.3	4902.2	4929.7	4977.0	5014.4	5008.6	4909.1	4721.8	4498.3	4396.7	3983.9
15°	4946.5	4967.2	5010.5	5095.2	5200.6	5260.7	5234.2	5064.7	4815.4	4690.3	4158.3
17.5°	4983.9	5000.6	5067.6	5181.0	5337.6	5497.2	5567.1	5425.2	5174.0	5031.2	4358.3
20°	5009.5	5022.3	5106.1	5239.0	5442.0	5696.1	5891.2	5855.8	5569.1	5383.9	4567.2
22.5°	5066.7	5077.5	5157.3	5291.3	5515.9	5844.0	6203.5	6256.7	5985.8	5776.0	4790.9
25°	5226.3	5226.3	5293.2	5386.9	5597.7	5972.1	6467.5	6703.0	6411.4	6167.1	4997.7
27.5°	5530.7	5527.7	5552.3	5584.8	5744.5	6102.1	6703.0	7097.1	6852.7	6585.8	5198.7
30°	5891.2	5910.9	5913.9	5898.1	5973.0	6264.7	6920.7	7512.8	7297.1	7009.4	5404.6
32.5°	6355.2	6368.1	6353.2	6301.1	6290.3	6495.1	7134.5	7948.2	7777.9	7451.7	5592.7
35°	6944.4	6919.7	6873.4	6767.0	6665.6	6803.5	7378.8	8383.6	8317.7	7986.7	5851.8
37.5°	7575.9	7576.8	7519.7	7278.4	7138.4	7197.6	7715.7	8877.3	8970.8	8623.1	6183.8
40°	8082.2	8108.8	8144.3	7827.0	7645.8	7727.6	8144.3	9449.6	9743.2	9377.7	6616.3
42.5°	8435.9	8466.5	8566.9	8367.9	8179.7	8331.5	8648.7	10060.4	10610.1	10248.6	7122.7
45°	8810.3	8827.0	8898.0	8812.3	8692.1	9033.9	9217.1	10692.9	11527.3	11176.6	7689.2
47.5°	9204.3	9222.0	9295.0	9237.8	9174.8	9690.1	9810.2	11289.0	12406.1	12196.3	8294.0
50°	9691.0	9702.8	9771.7	9668.3	9688.0	10184.5	10340.2	11835.7	13327.2	13112.5	8900.9
52.5°	10355.0	10358.0	10453.5	10359.9	10267.3	10547.1	10796.4	12350.9	14049.3	13947.9	9507.7
55°	10875.2	10906.7	11219.9	11200.3	11147.1	10876.1	11177.6	12841.6	14693.6	14741.9	10152.0
57.5°	10543.2	10666.3	11300.7	11748.0	12183.4	11694.8	11692.9	13394.2	15292.6	15521.2	10860.4
60°	9233.9	9401.4	10336.3	11328.4	12690.8	13119.4	12762.7	14069.1	15897.5	16293.5	11748.0
62.5°	6594.6	6870.4	8137.4	9721.5	11995.3	14063.1	14939.9	15139.9	16720.1	17188.1	12901.7
65°	3333.7	3542.6	4604.6	6512.9	9583.6	13446.4	17306.3	17484.6	18149.5	18565.3	14677.8
67.5°	2025.5	2104.3	2622.5	3622.4	5875.5	10474.2	18078.6	21392.7	20915.9	21136.5	17210.7
70°	1492.5	1550.7	1873.8	2405.7	3379.1	6146.4	15708.3	24181.7	23868.4	23843.8	19082.5
72°	1162.5	1204.9	1490.6	1943.7	2470.7	3687.4	11385.5	23152.2	24713.7	24589.5	18911.1
72.5°	1102.4	1139.8	1399.9	1829.5	2334.8	3342.7	10236.8	22457.7	24652.6	24596.4	18689.5
75°	867.9	894.6	1036.3	1414.6	1827.5	1896.4	5609.5	17403.8	21869.5	22778.9	16809.8
77.5°	718.2	722.1	797.0	1029.5	1424.5	1340.8	2755.5	12075.1	15660.1	16660.0	11907.6
80°	585.2	590.1	625.5	722.1	1077.8	992.1	1308.3	6943.4	8767.9	8778.7	5662.7
82.5°	466.0	467.0	506.4	528.0	774.3	709.3	749.7	3259.9	3831.3	3685.5	2035.3
85°	328.1	321.2	494.6	433.4	506.4	455.2	413.8	1290.6	1584.1	1515.2	637.4
87.5°	109.4	113.3	219.7	280.8	295.6	258.1	184.3	494.6	598.0	593.0	202.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3519.9	3519.9	3519.9	3519.9	3519.9	3519.9	3519.9	3519.9	3519.9	3519.9	3519.9
2.5°	3537.7	3506.2	3459.9	3408.6	3368.3	3326.8	3296.4	3280.5	3262.8	3248.0	3265.8
5°	3575.1	3516.0	3417.5	3321.0	3250.1	3187.0	3141.6	3118.0	3096.4	3081.6	3083.5
7.5°	3636.2	3540.6	3375.2	3234.2	3135.8	3067.8	3021.5	3005.7	2991.9	2987.9	2992.9
10°	3701.2	3560.4	3319.0	3131.8	3019.5	2963.3	2942.7	2953.5	2963.3	2972.2	2982.1
12.5°	3775.1	3578.1	3237.2	3011.6	2916.0	2894.4	2915.1	2962.4	2996.9	3017.6	3030.3
15°	3871.7	3593.8	3142.7	2891.4	2827.4	2852.0	2922.0	3003.8	3063.9	3102.2	3108.2
17.5°	3960.3	3592.9	3021.5	2770.2	2755.5	2827.4	2932.8	3048.1	3128.9	3183.0	3193.9
20°	4052.0	3566.2	2880.6	2652.0	2682.6	2800.8	2937.7	3076.6	3174.2	3237.2	3252.0
22.5°	4137.7	3519.9	2725.9	2544.6	2621.5	2765.3	2919.0	3059.9	3157.4	3208.6	3224.5
25°	4195.8	3439.2	2569.3	2454.1	2567.3	2722.0	2858.0	2971.3	3044.1	3069.7	3073.7
27.5°	4225.3	3333.7	2421.6	2375.3	2511.2	2651.1	2744.6	2800.8	2821.5	2819.5	2815.6
30°	4229.3	3194.8	2294.4	2311.2	2446.2	2546.7	2591.0	2580.1	2553.6	2508.2	2512.2
32.5°	4216.5	3038.2	2188.0	2250.1	2363.4	2419.5	2421.6	2369.3	2298.4	2226.5	2206.7
35°	4220.4	2884.5	2094.4	2181.1	2262.9	2287.5	2264.9	2188.0	2091.5	1998.9	1979.2
37.5°	4263.8	2750.6	2013.6	2101.4	2151.6	2157.5	2125.0	2044.2	1973.3	1882.7	1874.7
40°	4367.2	2655.0	1936.8	2011.7	2040.3	2043.3	1997.0	1939.8	1945.7	1897.4	1896.4
42.5°	4553.4	2613.6	1868.9	1918.1	1935.8	1941.7	1906.3	1869.8	1921.0	1889.6	1878.7
45°	4793.7	2623.5	1811.7	1826.5	1859.0	1886.6	1864.9	1820.6	1840.3	1703.3	1658.1
47.5°	5071.6	2686.5	1766.4	1747.7	1803.8	1856.0	1822.6	1755.6	1685.6	1549.6	1524.0
50°	5396.7	2784.0	1725.0	1669.8	1743.8	1814.7	1781.1	1685.6	1580.2	1514.2	1505.3
52.5°	5735.6	2903.3	1683.7	1584.1	1667.8	1783.2	1766.4	1669.8	1539.8	1474.8	1463.0
55°	6119.8	3023.4	1631.4	1484.6	1586.1	1768.4	1759.5	1612.7	1509.3	1472.8	1463.9
57.5°	6597.6	3160.4	1562.5	1381.2	1509.3	1715.2	1687.6	1578.2	1477.7	1450.1	1447.2
60°	7220.2	3362.3	1463.0	1270.8	1415.7	1633.4	1627.5	1528.0	1427.5	1407.8	1403.8
62.5°	8154.1	3696.3	1326.1	1160.5	1311.2	1494.5	1548.7	1460.0	1374.3	1373.3	1375.2
65°	9602.3	4198.8	1177.3	1064.0	1205.8	1377.3	1457.0	1390.1	1320.1	1339.8	1342.7
67.5°	11281.0	4615.4	1031.5	969.4	1098.5	1266.0	1374.3	1320.1	1248.2	1299.4	1300.4
70°	11839.6	4243.1	903.4	875.8	987.2	1158.6	1284.6	1243.2	1170.4	1221.6	1216.7
72°	11018.0	3425.4	820.6	804.9	903.4	1069.9	1204.9	1171.3	1099.4	1133.9	1121.1
72.5°	10758.9	3265.8	799.9	787.2	880.7	1047.2	1184.2	1153.6	1081.7	1111.2	1099.4
75°	9597.4	2836.3	687.7	690.6	768.4	936.9	1067.9	1058.1	984.2	987.2	983.2
77.5°	6961.1	2079.7	579.2	599.0	654.1	823.6	950.6	944.8	864.0	849.2	846.2
80°	3230.3	1061.0	471.9	480.8	537.9	688.6	810.8	802.9	737.9	719.2	708.3
82.5°	1106.3	504.4	354.6	360.6	416.7	554.6	703.4	698.5	644.3	607.8	585.2
85°	395.1	251.2	248.3	242.4	297.5	436.4	612.8	586.1	506.4	431.5	429.5
87.5°	128.1	107.4	128.1	127.1	173.4	295.6	445.3	379.3	367.5	305.4	299.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)